

# ELECTROACTIVE POLYMER ROTARY MOTORS

## ABSTRACT OF THE DISCLOSURE

5       The present invention relates to mechanical-electrical power conversion systems.  
The systems comprise one or more electroactive polymers that convert between electrical and  
mechanical energy. When a voltage is applied to electrodes contacting an electroactive  
polymer, the polymer deflects. This deflection may be converted into rotation of a power  
shaft included in a motor. Repeated deflection of the polymer may then produce continuous  
10   rotation of the power shaft.

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